

INTELLIGENCE

Industrial Facilities (Non-Military)

Basic Imagery Interpretation Report

Selected Iron and Steel Plants China

25X1

Top Secret

RCS	13/0051/71	
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DATE	JUNE 1971	_
COPY	117	
PAGES	60	



RCS - 13/0051/71

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CENTRAL INTELLIGENCE AGENCY Directorate of Intelligence Imagery Analysis Service

ABSTRACT

This report covers 42 iron and steel plants which represent all but a small percentage of the known iron and steel production facilities in China. It updates the information on 39 plants described in previous basic reports. Three other plants which were previously reported were either not covered or not seen on interpretable photography. The cut-off date for information in this report is February 1971.

During the period of this study, 1970-early 1971, 37 of the 42 plants were observed in operation. The five primary plants, those at An-shan, Wu-han, Tai-yuan, Pao-tou, and Shang-hai were highly active during this reporting period.

Construction activity was observed at 26 plants, while no construction was seen at 13 plants. Five large/medium blast furnaces were completed, and five additional ones were observed under construction during this reporting period. Construction was nearing completion on the three large rolling mills at Pao-tou, Shih-ching-shan, and Tai-yuan. The iron, coke, and ore sintering facilities at Jen-ho-chieh were operating but not yet fully complete. New buildings under construction in the southeastern section of this plant could not be identified; however, there is evidence that this area will contain the stee! production facilities for the plant. Construction has continued slowly at the Chiu-chuan plant, but the presence of coal and ore within the storage yards suggests that the iron and coke facilities probably will soon become operational. New facilities were being built at a rapid rate at the An-yang and Han-tan plants. A possible basic oxygen furnace building was in an early to mid-stage of construction at both of these plants. At the Tai-yuan plant, two basic oxygen furnaces have been installed, and they were seen operating for the first time in June 1970.

This report describes construction and production activity for each plant studied, and provides a photograph when better imagery than previously used was available.

INTRODUCTION

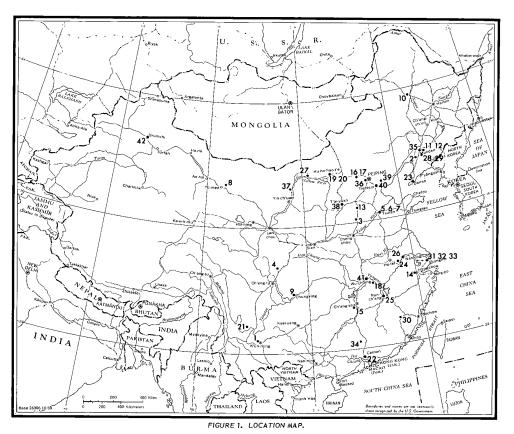
The majority of the Chinese iron and steel plants are located in the industrial north or along the Yangtze (Chang Chiang) River east of Wu-han (see Figure 1).

Two additional probable iron and steel plants in an early stage of construction are not included in this report. These plants are located at Tou-tang (Shui-cheng) and Yen-tsun. Tou-tang is located 150 nm northeast of Kun-ming and Yen-tsun is located 11 nm southwest of Nan-ching.

The length and width measurements indicated on the key to annotations when multiplied may not equal the corresponding square feet of roof cover. The area of roof cover was determined by taking into account all protrusions and accurately determining the total square feet. For brevity, the level of production activity is indicated as inactive (no visible signs of plant operation), low activity (up to 30 percent of the total plant facilities in operation), moderate activity (between 30 and 70 percent of the total plant facilities in operation), and high activity (from 70 to 100 percent of the total plant facilities in operation).

The approximate size of the blast furnaces was determined by comparative analysis. Blast furnaces are described as small (up to 150 tons/day), medium (200-700 tons/day), and large (700-1,300 tons/day).

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The following list of iron and steel plants included in this study is keyed to Figure 1.

- 1. An-ning Iron and Steel Plant Kun-ming.
- 2. An-shan Iron and Steel Plant.
- 3. An-yang Iron and Steel Plant.
- Chiang-yu Iron and Steel Plant.
- 5. Chi-nan Iron Plant East.
- 6. Chi-nan Iron and Steel Plant.
- 7. Chi-nan Iron and Steel Plant Li-cheng.
- 8. Chiu-chuan Iron and Steel Plant.
- 9. Chung-ching Iron and Steel Plant No. 1.
- 10. Fu-la-erh-chi Steel Plant.
- 11. Fu-shun Iron Plant West.
- 12. Fu-shun Steel Plant.
- 13. Han-tan Iron and Steel Plant.
- 14. Hang-chou Iron and Steel Plant.
- 15. Hsiang-tan Iron and Steel Plant.
- 16. Hsuan-hua Iron and Steel Plant Lung-yen.
- 17. Hsuan-hua Iron Plant Lung-yen.
- 18. Huang-shih Steel Plant Ta-yeh.
- 19. Hu-ho-hao-te Iron and Steel Plant.
- 20. Hu-ho-hao-te Iron Plant Hsin-sheng.
- 21. Jen-ho-chieh Iron and Steel Plant U/C.
- 22. Kuang-chou Iron and Steel Plant.
- 23. Lu-ta Iron and Steel Plant.
- 24. Ma-an-shan Iron and Steel Plant.
- 25. Nan-chang Iron and Steel Plant.
- 26. Nan-ching Iron and Steel Plant Yung-li.
- 27. Pao-tou Iron and Steel Plant Kun-tu-lun.
- 28. Pen-chi Iron and Steel Plant Kung-yuan.
- 29. Pen-chi Iron Plant.
- 30. San-ming Iron and Steel Plant.
- 31. Shang-hai Iron and Steel Plant No. 1.
- 32. Shang-hai Steel Plant No. 3.
- 33. Shang-hai Steel Plant No. 5.
- 34. Shao-kuan Iron and Steel Plant Ma-pa.
- 35. Shen-yang Iron and Steel Plant.
- 36. Shih-ching-shan Iron and Steel Plant.
- 37. Shih-tsui-shan Iron and Steel Plant.
- 38. Tai-yuan Iron and Steel Plant.
- 39. Tang-shan Steel Plant.
- 40. Tien-ching Steel Plant No. 2.
- 41. Wu-han Iron and Steel Plant.
- 42. Wu-lu-mu-chi Iron and Steel Plant August 1.

Requirement

COMIREX NO1

Support Number 429231

Document References

CIA. RCS 13/0241/69, Selected Iron and Steel Plants, China, June 1969, (TOP SECRET

CIA. RCS 13/0047/70, Selected Iron and Steel Plants, China, May 1970,

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An-ning Iron an COORDINATES 8	d Steel Plan			•
M COORDINATES		t Kun-mina		OI I
8RTC464577	GEOGRAPHIC COOR	DINATES		L CH
	24-54-30N	<u>102-29-30E</u>		
P REFERENCE				
USATO, Se SECRET	ries 200, She	et M0496-17	HL. 3rd ed. Jan 68	Scale 1.200 000
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			NA	
		BASIC DE	SCRIPTION	
eport. Construction identified bu	read, the dat uction remair ilding. I of activity	e of the la ed suspende was observ	n-ning Iron and Steel test photography used d on the previously r	d in the previous
o smoke or stea lant.	am was observ	red coming f	rom any of the facili	ties within the

ISTALLATION OR ACTIVITY NAME			COUNTRY
An-shan Iron and Steel Pla	an†		CH
TM COORDINATES GEOGRAPHIC CO			•
51TVF990540 41-08-31N	122-59-22E		
AP REFERENCE			
5th RTS. USATC, Series 20 (SECRET)	00, Sheet M0289-20	HL, 3rd ed, Sep 6	56, Scale 1:200,000
TEST IMAGERY USED	INF	GATION DATE (If required)	
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	BASIC DESCRI	PTION	
No changes have been			
lovember 1968, the date of	f the latest photo	graphy used in th	he previous reports.
A high level of activ	vity was observed	at the plant on	the referenced
magery. The following fa	acilities were see	n operating on p	hotography of October
969: seven of the nine bl			
nills, and the associated	power plant. The	small scale of	the December 1970
hotography precluded a de	etermination of wh	at specific faci	lities were
pperating, but the plant beteam were observed coming	nad the appearance a from many facili	e of being highly ties.	active. Smoke and
710diii #610 00301 vod 00ii111ig	, on many ractri		

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INSTALLATION OR AC	TIVITY NAME	, , , , , , , , , , , , , , , , , , , 	COUNTRY	_
An-yang Iron a	nd Steel Plant		СН	
UTM COORDINATES	GEOGRAPHIC COORDINATES			25
50SKR551001	36-07-20N 114-17-01E			
MAP REFERENCE	-			
15th RTS. USAT		82-24HL, 3rd ed, Aug 67, Sca	le 1:200,000	25
LATEST IMAGERY US	ED	NEGATION DATE (If required)	_	
		NA		25

BASIC DESCRIPTION

Construction activity has been observed at the An-yang Iron and Steel Plant since December 1969, the date of the latest photography used in the previous report. A possible basic oxygen furnace building (Figure 2, Item 3) was seen in the early to mid-stage of construction. No air separation facility could be identified at or near this plant; however, the new building under construction appears similar to the basic oxygen furnace building at Tai-yuan Iron and Steel Plant, when it was seen in a comparable stage of construction. A rolling mill (Item 6), seen in the early stage of construction in December 1969, was externally complete. One by-product coke oven battery was complete and work was continuing on a second (Item 2). The coke by-products section was complete and operating (Item 1). The modifications to a probable foundry (Item 5) were also completed. An unidentified building (Item 4), in the early stage of construction, and foundation excavations for another unidentified building (Item 7) were also seen on the latest coverage.

A high level of activity was observed at the plant on the referenced imagery. Facilities observed operating were the two blast furnaces, the rolling mill and side-blown converter shop, one by-product coke oven battery, the coke by-products section, the fire brick plant, and the steam plant.

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Key to Annotations

Item No.	<u>Description</u>	Dimensions (F†)	Roof Cover (Sq. Ft)	Remarks
1	Coke by-products section			Complete
2	By-product coke oven batteries (2)			1 Complete 1 Under construction
3	Possible basic oxygen furnace building U/C	510 ×		Early to mid- stage of con- struction
4	Unidentified building U/C	475 × 60	28,500	
5	Probable foundry	380 × 50	19,000	Complete
6	Rolling mill	790 × 70 585 × 70 140 × 80	55,300 40,950 11,200	Externally complete
7	Unidentified building U/C			Foundations in place
		-7-		

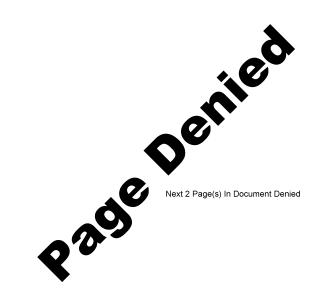
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STALLATION OR AG	CTIVITY NAME		COUNTRY
Chi-nan Iron	Plant Fast		СН
TM COORDINATES	GEOGRAPHIC COORDINATES		<u> </u>
50SNR113630	36-42-40N 117-07-30E		
AP REFERENCE			
	C Sories 200 Sheet MO381	-21HL. 4th ed. Sep 69. Scal	a 1.200 000
SEC		=7 IIII . 4 III EU. BEB 09. Stat	e 1.700.000
ATEST IMAGERY US		NEGATION DATE (If required)	
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		NA	
	BASIC D	PESCRIPTION	
		ni-nan Iron Plant East since	
December 1969 report.	, the date of the latest p	photography used in the prev	IOUS
Only one	of the four blast furnace	es was seen operating in Dec	ember 1970.

NSTALLATION OR A	CTIVITY NAME			COUNTR	Ϋ́
Chi-nan Iron :	and Steel Plant			011	
TM COORDINATES 50SNR080580	GEOGRAPHIC COORD				NIETB NO.
AP REFERENCE B+h RTS. USATI (SECI	RET	Sheet M0381-21HL, 4t	h ed, Sep 69, Sca	ale 1:200,	000
			NA		
Chi-nan Iron a photography us within the pla	and Steel Plant sed in this prev ant area. Te level of acti	BASIC DESCRIPTION Led slowly on the pro- since December 1969 vious report. No other vity was observed as	obable rolling mi , the date of the her changes were	e latest evident	

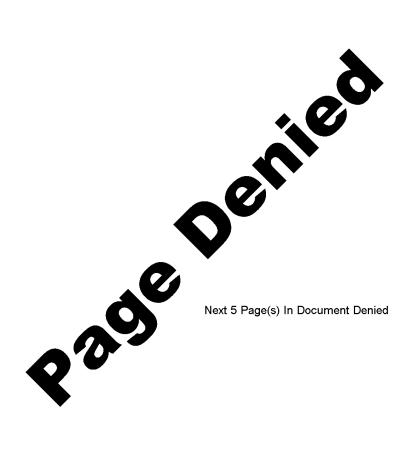
INSTALLATION OR A	CTIVITY NAME			COUNTRY
Chi-nan Iron a	nd Steel Plant TGEOGRAPHIC COOL			L CH
50SNR155641	36-43-15N 1			
MAP REFERENCE	<u> 30 45 1311 1</u>	17 10 222		
		Sheet M0381-	21HL, 4th ed, Sep 69, Sca	le 1:200,000
(SECR				
LATEST IMAGERY US	ED		NEGATION DATE (If required)	
			NA	
		BASIC DE	SCRIPTION	
Li-cheng since previous report oven battery, two identified	December 1969 The probable and the coke be buildings were becember 1970	9, the date on the ore procedured by products some observed in these builts.	rved at Chi-nan Iron and f the latest photography ssing facility, the by-prection have been complete n the late stage of constitutions were located immeding.	used in the roduct coke ed. In addition truction on
A moderat	e level of ac	tivity was ob	served at the plant in De	ecember 1970.
A moderal				



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NSTALLATION OR AC	TIVITY NAME		COUNTRY
Fu-la-erh-chi			CH
JTM COORDINATES	GEOGRAPHIC COORDINATES		
51TWN468259	47-11-24N 123-37-01E		
MAP REFERENCE			4 500 000
		83-6HL, 3rd ed, Sep 69, Scale	1:200,000
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		NA	
		NA NA	
since Decembe report. A by completed bet the limits of building. The undetected be steel plant he coke oven bat and the new for the a foundry. The a foundry.	r 1969, the date of the -product coke oven batte ween December 1969 and December 196	latest photography used in the latest photography used in the ery and a coke by-products sect december 1970. They are located southeast of the forge and fabour prior to August 1967, but we outside the plant area. Althomotoke, it uses the gases product furnaces. A pipeline connects deserved at the plant on the reference, the open-hearth furnace be product coke oven battery, and	e previous ion were d outside crication ent ough the eed in a the plant erenced
by-products s	ection were seen operat	· ''9 •	

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Fu-shun Iron	Plant West			
UTM COORDINATES	GEOGRAPHIC COORDINATES	-	CH	
51TWG638325	41-50-20N 123-46-00		COMIREX NO.	
MAP REFERENCE	123 40 00	_	None	None
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,	s have been observed at	Fu-shun Iron Plant We able photography used	l in the previou	ıs reports.
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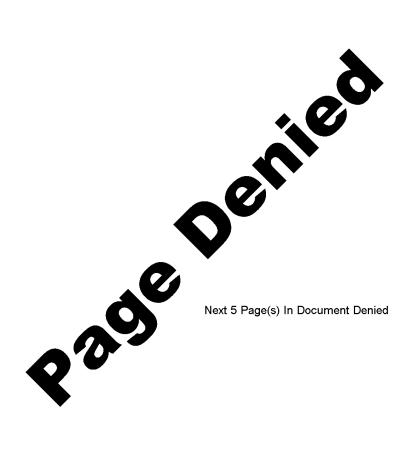


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INSTALLATION OR AC	TIVITY NAME		COUNTRY
Hsuan-hua Iron	and Steel Plant Lung-ye	n	СН
UTM COORDINATES	GEOGRAPHIC COORDINATES		
50TLK356950	40-35-30N 115-04-15E		
MAP REFERENCE			
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since October 1 However, two ne coke oven batte and the other i northeast. Nei A moderate Three of eight	969, the date of the la- w plants have been company. One is a probable r s an unidentified fabric ther plant is directly a	Hsuan-hua Iron and Steel Plant test photography used in the pleted since October 1969 near nitrogen fertilizer plant location-type plant located to tassociated with the iron and subserved at the plant in Novembroduct coke oven battery, and ating.	revious report. the by-product ted just south he east- teel plant.
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NSTALLATION OF AC	TIVITY NAME			COUNTRY
				COUNTRY
uang-shih Stee	el Plant Ta-ye	h	-	СН
TM COORDINATES ORLJ 197429	GEOGRAPHIC COOL			
AP REFERENCE	30-12-15N 1	13-07-23E		
nd RTS. USATC, (SECRE		Sheet M0493-	-11Hl 4th ed Jul 68 Scale	1.200 000
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emained in the A moderate eferenced imag orge shop were	e level of act ery. The ope	ivity was ob n-hearth fur	eserved at the steel plant on mace building, a rolling mil	the i, and a
lant at 30-11- eehive coke ov	30N 114-58-30 en batteries, ildings have	E has been e a possible been recent!	located 7.7 nm west of the expanded since January 1970. open-hearth furnace building y completed. Only the beehit the iron plant in December	Two , and two ve coke
ven batteries				

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INSTALLATION OR AC	TIVITY NAME	COUNTRY	_
Lu-ta Iron and UTM COORDINATES	GEOGRAPHIC COORDINATES		_ 25X
51SUD796132	38-57-42N 121-36-2	7F	
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since March 19 A large spray p it was observed previously repo	70, the date of the 1a pond has been complete d in operation in Octo ported to be nearing o	observed at Lu-ta Iron and Steel Plant atest photography used in the previous report. ed on the southern edge of the plant and ober 1970. The medium size blast furnace, ompletion, was complete and operating. A	
since March 19 A large spray pit was observed previously reposecond blast for tion activity preferenced imagery. The limagery.	70, the date of the lapond has been completed in operation in Octobrited to be nearing ournace is not being beas been completed, begery.	atest photography used in the previous report. ed on the southern edge of the plant and ober 1970. The medium size blast furnace,	
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since March 19' A large spray previously repessed blast for tion activity preferenced imagery. The limagery. The large since the since of the since	70, the date of the lapond has been completed in operation in Octobrited to be nearing ournace is not being beas been completed, begery.	atest photography used in the previous report. ed on the southern edge of the plant and ober 1970. The medium size blast furnace, ompletion, was complete and operating. A uilt as previously reported. This construc- ut its function cannot be identified on the bserved at the plant on the referenced	25X

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NSTALLATION OR AC	TIVITY MAME		T = 2770 = 27.
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Ma-an-shan Iro	on and Steel Plant		CLI
JTM COORDINATES	GEOGRAPHIC COORDINATES		I CH
50RPL397106	31-43-01N 118-28-44E		
AP REFERENCE		-	
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ATEST IMAGERY USE	ED	NEGATION DATE (If required)	·
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		NA NA	
identified as building was c December 1970. A high le	a probable storage buildiconstructed next to the fo	shops, has been completed. ing. In addition, a probable bundry building between Decem ved at the plant on the lates	forge/foundry ber 1969 and
imagery. The furnaces, one the by-product	tollowing facilities were side-blown converter show	observed operating: seven on the iron ore sintering plan se poor quality of the May 19	f 15 blast
			· ·
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FIGURE 8. NAN-CHING IRON AND STEEL PLANT YUNG-LI,

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NSTALLATIO	ON OR ACTIVITY NAME			COUNTRY	
lan-chin	g Iron and Steel Plant Yun	g-li		СН	
TM COORDI					25
OSPL647		55E			
	USATC, Series 200, Sheet	M0386-22HL, 3rd	ed, Sep 67, Sc	cale 1:200,000	25X [^]
ATEST IMAG	GERY USED	NEGATION DA	1E (IT requirea)		
			NA		25
	BA	SIC DESCRIPTION			
also beg a mid-st one. It is assoc complete A m December	1969 and May 1970. Work an between December 1969 a rage of construction and or is not known at this time iated with the iron and stad between November 1967 are noderate level of activity 1970. The blast furnaces ag in December 1970.	and May 1970. On the preparation of an additional cell plant. Consid November 1968.	e battery appoint for had started unidentified truction of the this plant in	eared to be in ed on the second building (Item his building was	
	,	to Annotations Dimensions	Roof Cover	Page vice	
tem No.		<u>(F†)</u>	(Sq. F+)	Remarks	
1	Rolling mill U/C			Nearing completion	
2	Unidentified building	340 × 100	34,000	Complete	
3	Unidentified building	305 x 145.	44,225	Complete	
4	Probable ladle car maintenance building			Complete	
5	Unidentified building				
6	By-product coke oven				

Complete

Unidentified building 205×120 30,000

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	ТОР	SECRET	25
NSTALLATION OR A	OTIVITY NAME	COUNTRY	
NSTALLATION OR A	SIIAILL MAME		
Pao-tou Iron	and Steel Plant Kun-tu-	-lun CH	
ITM COORDINATES	GEOGRAPHIC COORDINATES		2
49TCR950998	40-38-52N 109-45-20E		
AP REFERENCE	TO Sanion 200 Shoot MO	0288=22HL 3rd ed. Aug 68. Scale 1:200.000	
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		NA	
furnace build addition. The cooling tower constructed Work was progressively the completion, a field building. A high imagery. On operating: the	ding (Item 5) has been one air separation plant or and two small unidentifin an area previously regressing slowly on the raddition to the large rand work was continuing (Item 3). Level of activity was obtained the latest coverage, the wollarge and two small before the side of the	ction. The addition to the open-hearth completed and work has started on another (Item 6) has also been completed. A ified buildings (Item 7) have been eported as unidentified construction. new rolling/finishing mill (Item 8). rolling mill (Item 9) was nearing on the previously reported unidentibuserved at the plant on the referenced he following facilities were observed blast furnaces (Items 1 and 4) the ide-blown converter shop (Item 2), the coke by-products section, a iron	
the by-produc	g plant, and the associa	ated thermal power plant.	

TOP SECRET

Key to Annotations

Item No.	Description	Remarks
1	Blast furnaces (2)	Small, operating
2	Side-blown converter shop	5 Converter and 2 cupola furnaces
3	Unidentified building under construction	
4	Blast furnaces (3)	Large, 2 operating and 1 under construction
5	Open-hearth furnace building	5 Stacks, one new section under construction
6	Air separation plant	Complete
7	Unidentified facility	Under construction
8	Rolling/finishing mill	Under construction
9	Rolling mill addition	Nearing completion



Pen-chi Iron an	d Steel Plant Kung-yuan		1
TM COORDINATES G			СН
	SEOGRAPHIC COORDINATES		I CH
51TWF612682	41-16-10N 123-44-06E		
AP REFERENCE			
USATC (SECR	, Series 200, Sheet MO2 FT	90-16HL, 4th ed. Jul 65. Scal	le 1:200.000
ATEST IMAGERY USED		NEGATION DATE (If required)	
		Tradition Britz (in logariou)	
		NA NA	
	· ,		
	BASIC	DESCRIPTION	
No changes since January 19 report.	have been observed at F 970, the date of the la	Pen-chi Iron and Steel Plant test photography used in the	Kung-yuan previous
imagery. The tw batteries, the d	wo forge shops, two roll coke by-products section	rved at this plant on the ref ling mills, the by-product co n, the two blast furnaces, an nt were observed operating.	ke oven

25X1 25X1

-43**-**

	TOP SE	CINET	
NSTALLATION OR AC	TIVITY NAME		COUNTRY
Pen-chi Iron I	⊃lan†		СН
ITM COORDINATES			-
51TWF636738	41-19-13N 123-45-48E		
MAP REFERENCE		· ·	
USA ⁻	TC, Series 200. Sheet MO29	90-16HL. 4th ed, Jul 65, Sca	le 1:200,000
	CRET		
ATEST IMAGERY USE	ED	NEGATION DATE (If required)	
		NA	
	RASIC	DESCRIPTION	
	_,,,,,,		
No chang the date of t	es have been observed at l he latest photography used	Pen-chi Iron Plant since Jan d in the previous report.	uary 1970,
imagery. The	evel of activity was obse two blast furnaces, the ke oven batteries were ob	rved at this plant on the re probable side-blown converte served operating.	ferenced r shop, and the
by-product co	NE OVEH DATTELLES WELL OD	Soft on operating.	

TOP SEC	RET		25%
TIVITY NAME		COUNTRY	<u> </u>
and Steel Plant		СН	
GEOGRAPHIC COORDINATES			25X
26-15-38N 117-36-44E			
RE I	14HL 3rd ed. Dec 67 Scal	<u>a 1.200 000</u>	25X
,	NEGATION DATE (If required)		
	NA		25X
	and Steel Plant GEOGRAPHIC COORDINATES 26-15-38N 117-36-44E C, Series 200. Sheet M0498-RET	and Steel Plant GEOGRAPHIC COORDINATES 26–15–38N 117–36–44E C, Series 200. Sheet M0498–14HL. 3rd ed. Dec 67 Scal	TIVITY NAME and Steel Plant CH GEOGRAPHIC COORDINATES 26-15-38N 117-36-44E C, Series 200. Sheet M0498-14HL 3rd ed Dec 67 Scale 1.200 000 RET

Approved For Release 2008/05/20 : CIA-RDP79T00909A000700010002-7 _

NOTICE

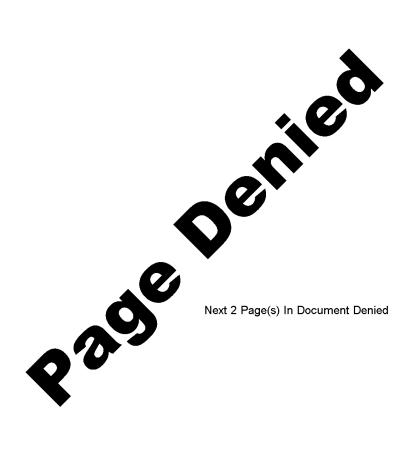
There has been no photographic coverage of San-ming Iron and Steel Plant since December 1969, the date of the latest photography used in the previous report.

TOP S	SECRET	
STALLATION OR ACTIVITY NAME		COUNTRY
		011
Shang-hai Iron and Steel Plant No. 1 M COORDINATES GEOGRAPHIC COORDINATES	_	L CH
31-21-25N 121-28-40E		
PREFERENCE		
2nd RTS. USATC, Series 200 Sheet MO4	92–2Hl. 3rd ed. Dec 68	3. Scale 1:200,000
(SECRET	NEGATION DATE (If required)	
TEST IMAGERY USED	WEGATION DATE (IT requires)	,
		NA
RASI	C DESCRIPTION	
No changes have been observed at since December 1969, the date of the	Shang-hai Iron and Ste	eel Plant No. 1 n the previous report.
A high level of activity was obse The basic oxygen furnace building, th	erved at the plant on t	the referenced imagery.
the by-product coke oven batteries, t	he limestone preparati	ion plant, and the
power plant were observed operating.		

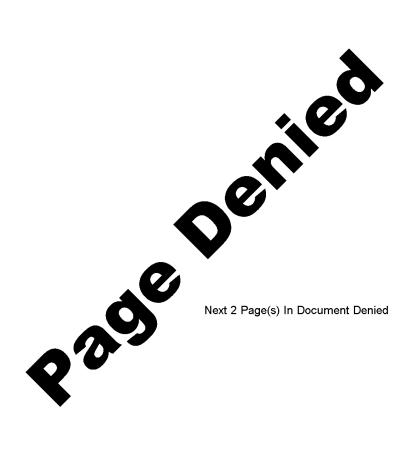
TOP SECRET



proved For Release 200	8/05/20 : CIA-RDP79T00909A00070001 TOP SECRET	0002-7	25X
INSTALLATION OR ACTIVIT	Y NAME	COUNTRY	
Shang-hai Steel F		СН	. =
- '	GRAPHIC COORDINATES	2	25X
	-23-25N 121-28-39E		
MAP REFERENCE		d D 69 C 1-200 000	
(SECRET,	eries 200, Sheet MO492-2HL, 3rd e	2	25>
LATEST IMAGERY USED	NEGATION DA	TE (If required)	
		NA 2	25>
	BASIC DESCRIPTION		
December 1969. th	ve been observed at Shang-hai Ste le date of the latest imagery used building under construction in Ma	in the previous report.	
A moderate imagery. The side	evel of activity was observed at le-blown converter shop and a roll	the plant on the referenced ling mill were observed operating.	
		2	25>



od i oi itoloase	2008/05/20 : CIA-RDP79T009 TOP SE			25X
	ı			
STALLATION OR A	CTIVITY NAME		COUNTRY	
nih≕tsui−shar	n 1ron and Steel Plant		СН	
M COORDINATES	GEOGRAPHIC COORDINATES			25X
3SXU543522	39-18-45N 106-47-15E			
P REFERENCE	FO Carrier 200 Chart H07	07 411 4 + - 1 0-+ 60	S1- 1 200 000	
	TC, Series 200, Sheet MO38 NFIDENTIAL)	83-4HL, IST ed, OCT 62,	Scale 1:200,000	
TEST IMAGERY US	ÉD	NEGATION DATE (If required)		_
				25X
		NA		
	BASIC	DESCRIPTION		
ince May 1969 ew rail spurs etween Octobe atteries was	change has been observed 0, the date of the latest s serving the rolling miler 1969 and March 1970. A reconstructed during the en reported as being removed.	photography used in the I and one blast furnace A rail spur serving the same time period. This	previous report. were constructed beehive coke oven	
	vel of activity was observ ke was seen coming from a 970.			
				25X



	9 2008/05/20 : CIA-RDP79 IUT	T00909A000700010002-7		25
NSTALLATION OR AC	IIVITY NAME		COUNTRY	
Tang-shan Steel	l Plant		CLI	
ITM COORDINATES	GEOGRAPHIC COORDINATES		CH	25
50SPJ038885	39-38-11N 118-12-06E			
AP REFERENCE				
15†h RTS. USATO SECF)	C, Series 200, Sheet M	0381—2HL, 3rd ed. Jul 70. Sca	le 1:200 000	
ATEST IMAGERY USE		NEGATION DATE (IT required)		_25 _.
		WEGATION DATE (IT required)		
		NA		25
the date of the shop remains in A moderate magery. The t	latest photography us a late stage of const level of activity was wo side-blown converte	t Tang-shan Steel Plant since sed in the previous report. Thruction. s observed at the plant on aller shops were observed operationally are inactionally are i	the referenced	
				25

ATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 feet, and several small support buildings were observed under construction southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and lovember 1970.		TOP SECRET		2
Tien-ching Steel Plant No. 2 TIM COORDINATES 50SNU231260 39-04-57N 117-16-02E AP REFERENCE 15th RTS. USATC, Series 200, Sheet M0381-6HL. 4th ed. Mar 70 Scale 1.200 000 (SECRET ATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and lovember 1970.				
Tien-ching Steel Plant No. 2 TIM COORDINATES 50SNU231260 39-04-57N 117-16-02E AP REFERENCE 15th RTS. USATC, Series 200, Sheet M0381-6HL. 4th ed. Mar 70 Scale 1.200 000 (SECRET ATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and lovember 1970.				
SOUTH COORDINATES GEOGRAPHIC COORDINATES 39-04-57N 117-16-02E APPREFERENCE 15th RTS. USATC, Series 200, Sheet M0381-6HL. 4th ed. Mar 70 Scale 1.200 000 (SECRET ATEST IMAGERY USED NEGATION DATE (IT required) BASIC DESCRIPTION NA 22 Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 (seet, and several small support buildings were observed under construction southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and lovember 1970.	NSTALLATION OR AC	TIVITY NAME	COUNTRY	_
SOUTH COORDINATES GEOGRAPHIC COORDINATES 39-04-57N 117-16-02E APPREFERENCE 15th RTS. USATC, Series 200, Sheet M0381-6HL. 4th ed. Mar 70 Scale 1.200 000 (SECRET ATEST IMAGERY USED NEGATION DATE (IT required) BASIC DESCRIPTION NA 22 Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 (seet, and several small support buildings were observed under construction southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and lovember 1970.	Tien-china St	sel Plant No. 2		
ATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and lovember 1970.	TM COORDINATES	GEOGRAPHIC COORDINATES	СН	
ATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and lovember 1970.		· · · · · · · · · · · · · · · · · · ·		
BASIC DESCRIPTION Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 seet, and several small support buildings were observed under construction southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and lovember 1970.				
BASIC DESCRIPTION Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 seet, and several small support buildings were observed under construction southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and ovember 1970.	15th RTS. USAT (SE	C, Series 200, Sheet M0381–6HL. 4th e	ed. Mar 70 Scale 1.200 000	
BASIC DESCRIPTION Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 eet, and several small support buildings were observed under construction outhwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and ovember 1970.				-2
BASIC DESCRIPTION Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 eet, and several small support buildings were observed under construction outhwest of the blooming and slabbing mill. This unidentified building was not an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and ovember 1970.		NEGATION DATE	E (IT required)	
Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 seet, and several small support buildings were observed under construction southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and ovember 1970.				2
Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 seet, and several small support buildings were observed under construction southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and ovember 1970.			NA	_
report. A large unidentified building, measuring approximately 1,300 by 100 eet, and several small support buildings were observed under construction southwest of the blooming and slabbing mill. This unidentified building was n an early stage of construction. A moderate level of activity was observed at the plant on the referenced magery. The side-blown converter shop was observed operating in May and ovember 1970.		BASIC DESCRIPTION		
lovember 1970.	eport. A lar eet, and seve outhwest of t	ge unidentified building, measuring app ral small support buildings were obser ne blooming and slabbing mill. This	aphy used in the previous proximately 1,300 by 100	
		e level of activity was observed at the side-blown converter shop was observed	ne plant on the referenced d operating in May and	
				2

INSTALLATION OR ACTIVITY NAME WU-han Iron and Steel Plant UTW.COORDINATES GEOGRAPHIC COORDINATES 50RKJ543921 30-37-34N 114-26-37E USNOO, USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000 (SECRI) LATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Wu-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in Docember 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building in the function of this building cannot be determined. A probable all separation plant, located east of the large rolling mill, was identified in October 1970. The function of this building cannot be determined. A probable all separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1965 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product ocke oven batteries, the coke by-products section, the irron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.			TOP SEC	CRET		==
WU-han Iron and Steel Plant UTM COORDINATES GEOGRAPHIC COORDINATES SORKJ543921 30-37-34N 114-26-37E WAP REFERENCE USNOO. USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000 (SECRET) LATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Wu-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.						
WWW-han Iron and Steel Plant UTM COORDINATES GEOGRAPHIC COORDINATES SORKJ543921 30-37-34N 114-26-37E WAP REFERENCE USNOO. USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000 (SECRET LATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Ww-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.						
WWW-han Iron and Steel Plant UTM COORDINATES GEOGRAPHIC COORDINATES SORKJ543921 30-37-34N 114-26-37E WAP REFERENCE USNOO. USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000 (SECRET LATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Ww-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.						
UNR CORDINATES 50RKJ543921 30-37-34N 114-26-37E MAP REFERENCE USNOO. USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000 (SECRET) LATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Wu-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the Iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.	INSTALLATION OR AC	CTIVITY NAME			COUNTRY	-
UNR CORDINATES 50RKJ543921 30-37-34N 114-26-37E MAP REFERENCE USNOO. USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000 (SECRET) LATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Wu-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the Iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.						
MAPREFERENCE USNOO. USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000 (SECRET) LATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Wu-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.		d Steel Plant GEOGRAPHIC COORDIN	IATES		LUH	25
USNOO. USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000 (SECRET) ATEST IMAGERY USED BASIC DESCRIPTION Construction activity has been observed at Wu-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.		30-37-34N 114	-26-37E			
BASIC DESCRIPTION Construction activity has been observed at Wu-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.	USNOO. USATC,		+ M0493-6HI	_, 4th ed, Jan 68, Scale 1	:200,000	7
BASIC DESCRIPTION Construction activity has been observed at Wu-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970. A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.				NEGATION DATE (IT required)		25
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UTM COORDINATES	GEOGRAPHIC COORDINATES	ugust i	I CH
45TWJ 232546	43-50-30N 087-17-20	<u>E</u>	
MAP REFERENCE			
(SECR	, Series 200, Sheet M	0330-3HL. 3rd ed .lur	69 Scale 1.200 000
LATEST IMAGERY USE		NEGATION DATE (If red	uired)
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